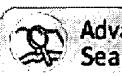


Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	63	((display near3 relationship) and (brows\$3 with object)) and navigat\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 16:16
L2	47	1 and action	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 16:16
L3	6561	action near8 list	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 16:17
L4	10	1 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 16:17
L5	123	((model same navigat\$3) or (model with navigat\$3)) same object) and browser	USPAT; DERWENT	OR	OFF	2005/04/26 16:26
L6	13	5 and 3	USPAT; DERWENT	OR	OFF	2005/04/26 16:36
L7	11	6 and relationship	USPAT; DERWENT	OR	OFF	2005/04/26 16:36
L8	89	navigat\$3 with component with model	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 16:48
L9	9	8 and 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 16:49
L10	5052	(707/3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:11
L11	1751	(707/4).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:11

L12	4578	(707/10).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:11
L13	3168	(707/100).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:12
L14	2896	(707/102).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:12
L15	3961	(707/104.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:12
L16	1003	(715/501.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:12
L17	861	(715/764).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:16
L18	214	(715/771).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/26 17:16
L19	4	3 and 18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/26 17:16


[Return to the USPTO NPL Page](#) | [Help](#)

 Interface language:  
 English

Databases selected: Multiple databases...

New! Dissertations in ABI/INFORM

## Results – powered by ProQuest® Smart Search

[Suggested Topics](#) [About](#)
[< Previous](#) | [Next >](#)
[Browse Suggested Publications](#) [About](#)
[< Previous](#) | [Next >](#)
[Cornell Hotel and Restaurant Administration Quarterly; Ithaca](#)  
[American Sociological Review; Albany](#)  
[Journal of Consumer Research; Gainesville](#)
[Models](#)  
[Models AND Consumer behavior](#)  
[Models AND Economic models](#)  
[Models AND Economic theory](#)

 28 documents found for: *navigate object model* [Set up Alert](#) [About](#)
[All sources](#) [Scholarly Journals](#) [Trade Publications](#) [Newspapers](#) [Dissertations](#)
 [Mark / Clear all on page](#) | [View marked documents](#)
 [Show only full text](#)

 Sort results by: [Most recent first](#)


---

1. [Setting sails for China in 2008; \[All Edition\]](#)  
*TOM MEADE* *Journal Sports Writer. The Providence Journal*. Providence, R.I.: Jan 19, 2005. p. D.01  
[Full text](#) [Abstract](#)

---

2. [Autodesk Technology Partners Adopt DWF to Share Rich Design Information Quickly, Easily, and Securely](#)  
*PR Newswire*. New York: Jan 11, 2005. p. 1  
[Full text](#) [Abstract](#)

---

3. [Clues hint at Japanese origin for model ship; \[Final Edition\]](#)  
*Greer Simonton. The Commercial Appeal*. Memphis, Tenn.: Sep 4, 2004. p. G.22  
[Full text](#) [Abstract](#)

---

4. [A classic catch ; With tale of spunky fish swum astray.; Pixar lands another winner with 'Nemo'; "FINDING NEMO" \\*\\*\\*\\*; \[Chicago Final Edition\]](#)  
*Mark Caro, Tribune movie reporter. Chicago Tribune*. Chicago, Ill.: May 30, 2003. p. 1  
[Full text](#) [Abstract](#)

---

5. [Estrogen may affect sense of direction // Navigation skills vary depending on menstrual cycle, study finds.; \[1 Edition\]](#)  
*ELLEN BARRY. Orange County Register*. Santa Ana, Calif.: Feb 19, 2003. p. SFP  
[Full text](#) [Abstract](#)

---

6. [ESTROGEN AFFECTS SENSE OF DIRECTION; \[THIRD Edition\]](#)  
*Ellen Barry, Globe Staff. Boston Globe*. Boston, Mass.: Feb 18, 2003. p. C.1  
[Full text](#) [Abstract](#)

---

7. [Catching it on the fly / Frisbee-retrieving dogs, baseball outfieldsers use same physics to navigate; \[2 STAR Edition\]](#)  
*YUDHIJIT BHATTACHARJEE. Houston Chronicle*. Houston, Tex.: Jan 8, 2003. p. 3  
[Full text](#) [Abstract](#)

---

8. [Infragistics Announces UltraWinGrid\(TM\) 1.0 For Microsoft .NET](#)  
*PR Newswire*. New York: Feb 4, 2002. p. 1  
[Full text](#) [Abstract](#)

---

9. [CLUBS AND ORGANIZATIONS Series: HOMETOWN CITRUS; \[STATE Edition\]](#)

**St. Petersburg Times.** St. Petersburg, Fla.: Nov 7, 2001. p. 4  
[Full text](#) [Abstract](#)

---

10. **Hands-free model latest in evolution of vacuum cleaner; [National Edition]**  
*Thomas Harding.* **National Post.** Don Mills, Ont.: Aug 30, 2001. p. B.5  
[Full text](#) [Abstract](#)

---

11. **Intergraph SmartPlant Review Supports Elumens' VisionStation; Advanced Software and Hardware Combination Expands Boundaries of 3D Visualization**  
*Business Editors & High-Tech Writers.* **Business Wire.** New York: Jan 29, 2001. p. 1  
[Full text](#) [Abstract](#)

---

12. **Business Objects Announces BUSINESSOBJECTS 2000**  
*Business Editors.* **Business Wire.** New York: Jul 25, 2000. p. 1  
[Full text](#) [Abstract](#)

---

13. **For manual hands-on with XML; [Computimes, 2\* Edition]**  
*Frank Jung.* **New Straits Times.** Kuala Lumpur: Jul 24, 2000. p. 37  
[Full text](#) [Abstract](#)

---

14. **FutureNext Develops Dynamic Commerce Site for RealCentric**  
**PR Newswire.** New York: Jul 18, 2000. p. 1  
[Full text](#) [Abstract](#)

---

15. **AVoN calling: AXL for voice-enabled Web navigation**  
*Sami Rollins, Neel Sundaresan.* **Computer Networks.** Amsterdam: Jun 2000. Vol. 33, Iss. 1-6; p. 533  
[Abstract](#)

---

16. **3D Module Extends Functionality of Intergraph SmartPlant Explorer; Web Access to PDS 3D Models Increases Value, Utility of Plant Data**  
*Business Editors & Technology Writers.* **Business Wire.** New York: May 9, 2000. p. 1  
[Full text](#) [Abstract](#)

---

17. **Arc Second, Inc. to Present at Red Herring Venture Market East**  
**PR Newswire.** New York: Oct 26, 1998. p. 1  
[Full text](#) [Abstract](#)

---

18. **Informix backs Java and COM components**  
*Michael Vizard.* **InfoWorld.** San Mateo: Aug 24, 1998. Vol. 20, Iss. 34; p. 5 (1 page)  
[Full text](#) [Page Image - PDF](#) [Abstract](#)

---

19. **Adaptive Media Announces First Web-Centric System for 3D Visual Collaboration Across the Enterprise**  
**PR Newswire.** New York: Jul 28, 1998. p. 1  
[Full text](#) [Abstract](#)

---

20. **Amoco's key to success: A simple front end**  
*Blaise Zerega.* **InfoWorld.** San Mateo: Mar 16, 1998. Vol. 20, Iss. 11; p. 79 (1 page)  
[Text+Graphics](#) [Page Image - PDF](#) [Abstract](#)

---

21. **When it comes to choosing a database, the object is value**  
*Karen Watterson.* **Datamation.** Barrington: Dec 1997/Jan 1998. Vol. 44, Iss. 1; p. 100 (6 pages)  
[Text+Graphics](#) [Page Image - PDF](#) [Abstract](#)

---

22. **Military, businesses use Visible Human Project Colo. researchers vital to national effort**  
*BARBARA M. DRAZGA.* **The Denver Business Journal.** Denver: May 16, 1997. p. 6.B

[Abstract](#)

23. **Virtual Sardinia: A large-scale hypermedia regional information system**  
*Gobbetti, Enrico, Leone, Andrea O.* **Computer Networks & ISDN Systems**. May 1996. Vol. 28, Iss. 7-11; p. 1539 (8 pages)

[Abstract](#)

24. **CITY PARKS EXCELLENT PLACES TO LEARN NAVIGATING SKILLS; [ALL Edition]**  
*ERIC SHARP Knight-Ridder Newspapers*. **Greensboro News Record**. Greensboro, N.C.: Nov 20, 1994. p. C.11

[Abstract](#)

25. **Designing with direction**  
*Schmitz, Barbara*. **Computer - Aided Engineering**. Cleveland: Jul 1994. Vol. 13, Iss. 7; p. 14s (6 pages)

[Full text](#)[Page Image - PDF](#)[Abstract](#)

26. **Mapping change**  
*Farey, Peter*. **Management Education and Development**. London: Winter 1993. Vol. 24, Iss. 4; p. 442 (17 pages)

[Full text](#)[Page Image - PDF](#)[Abstract](#)

27. **Pentagon Finds High-Tech Projects Hard to Manage; The Army Still Awaits Computerized Battlefield Series: THE SOFTWARE SNARL Series Number: 3/4; [FINAL Edition]**  
*Evelyn Richards*. **The Washington Post (pre-1997 Fulltext)**. Washington, D.C.: Dec 11, 1990. p. a.01

[Full text](#)[Abstract](#)

28. **Groups object to Mirabella's flasher photo; [FINAL EDITION, C]**  
*Nina Burleigh*. **Chicago Tribune (pre-1997 Fulltext)**. Chicago, Ill.: Sep 24, 1989. p. 2

[Full text](#)[Abstract](#)

1-28 of 28

Want an alert for new results sent by email? [Set up Alert](#) [About](#)Results per page:  30 

Did you find what you're looking for? If not, revise your search below or try these suggestions:

[Suggested Topics](#) [About](#)[< Previous](#) | [Next >](#)[Browse Suggested Publications](#) [About](#)[< Previous](#) | [Next >](#)[Models](#)[Cornell Hotel and Restaurant Administration Quarterly; Ithaca](#)[Models AND Consumer behavior](#)[American Sociological Review; Albany](#)[Models AND Economic models](#)[Journal of Consumer Research; Gainesville](#)[Models AND Economic theory](#)

## Basic Search

Tools: [Search Tips](#) [Browse Topics](#) [1 Recent Searches](#)Database:   [Select multiple databases](#)Date range:  Limit results to:  [Full text documents only](#)  [Scholarly journals, including peer-reviewed](#)  [About](#)[More Search Options](#)

Copyright © 2005 ProQuest Information and Learning Company. All rights reserved. [Terms and Conditions](#)

[Text-only interface](#)





Welcome United States Patent and Trademark Office

Home | Login | Logout | Access Information | Alerts | Sitemap | Help

Search Results

BROWSE

SEARCH

IEEE Xplore GUIDE

SUPPORT

Results for "(((navigate object model, present relationship, display action list)&lt;in&gt;metadata)) &lt;and&gt; (pyr &gt;= 1950 &lt;and&gt; pyr &lt;= 1999)"

Your search matched 1 of 1152881 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance** in **Descending** order. e-mail printer friendly[» View Session History](#)[» New Search](#)

## Modify Search

[» Key](#)

(((navigate object model, present relationship, display action list)&lt;in&gt;metadata)) &lt;&gt;

IEEE JNL IEEE Journal or Magazine

 Check to search only within this results set

IEE JNL IEE Journal or Magazine

Display Format:  Citation  Citation & Abstract

IEEE CNF IEEE Conference Proceeding

 1. **Fault diagnosis of flash ADC using DNL test**Charoenrook, A.; Soma, M.;  
Test Conference, 1993. Proceedings., International  
17-21 Oct. 1993 Page(s):680 - 689[AbstractPlus](#) | Full Text: [PDF\(492 KB\)](#) IEEE CNFIndexed by  
 Inspec

Help | Contact Us | Privacy &amp; Security | IEEE.org

© Copyright 2005 IEEE – All Rights Reserved



Welcome United States Patent and Trademark Office

Home | Login | Logout | Access Information | Alerts | Sitemap | Help

Search Results

BROWSE

SEARCH

IEEE Xplore GUIDE

SUPPORT

Results for "(((navigating object model, present action list, display relationship )&lt;in&gt;metadata)) &lt;and&gt; (pyr &gt;= 1950 &lt;and&gt; pyr &lt;= 1998)"

Your search matched 2 of 1152881 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance** in **Descending** order.[e-mail](#) [printer friendly](#)[View Session History](#)[New Search](#)

Modify Search

» Key

(((navigating object model, present action list, display relationship)<in>metadata)) [\[>>\]](#) Check to search only within this results set

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

Display Format:  Citation  Citation & Abstract

Select Article Information

 1. **Circuit Master: turnkey software for the introductory electrical engineering curriculum**

Ciletti, M.D.;  
Education, IEEE Transactions on  
Volume 32, Issue 3, Aug. 1989 Page(s):259 - 265  
[AbstractPlus](#) | Full Text: [PDF\(656 KB\)](#) IEEE JNL

 2. **Circuit Master: turnkey software for the introductory electrical engineering curriculum**

Ciletti, M.D.;  
Frontiers in Education Conference, 1988., Proceedings  
22-25 Oct. 1988 Page(s):435 - 443

[AbstractPlus](#) | Full Text: [PDF\(552 KB\)](#) IEEE CNFIndexed by  
**Inspec**

Help Contact Us Privacy &amp; Security IEEE.org

© Copyright 2005 IEEE - All Rights Reserved



US Patent &amp; Trademark Office

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
 The ACM Digital Library  The Guide

"object model", "action list", relationship, browser +select +element +component"/>

THE ACM DIGITAL LIBRARY


[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used **object model action list relationship browser select element component**

Found 12,030 of 5,351 searched out of 47,481.

Sort results by

 
 Save results to a Binder

[Try an Advanced Search](#)

Display results

 
 Search Tips

[Try this search in The ACM Guide](#)
 Open results in a new window

*printed* ↗

Results 1 - 20 of 200

Result page: 1 [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale

## 1 Eliciting software process models with the E3 language

Maria Letizia Jaccheri, Gian Pietro Picco, Patricia Lago

October 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 7 Issue 4

Full text available: [pdf\(1.48 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software processes are complex entities that demand careful understanding and improvement as they determine the quality of the resulting product. A necessary step toward the improvement of an organization's process is a clear description of the entities involved and of their mutual relationships. Process model elicitation aims at constructing this description under the shape of a software process model. The model is constructed by gathering, from several sources, process ...

**Keywords:** associations, process model elicitation, software process modeling

## 2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

## 3 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

## 4

## Model-driven development of Web applications: the AutoWeb system



Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available:  pdf(6.94 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

**Keywords:** HTML, WWW, application, development, intranet, modeling

**5 Principled design of the modern Web architecture**

Roy T. Fielding, Richard N. Taylor

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available:  pdf(335.47 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia application. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this article we introduce the Representational State Transfer (REST) arc ...

**Keywords:** Network-based applications, REST, World Wide Web

**6 Object orientation in multidatabase systems**

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Full text available:  pdf(4.85 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

**Keywords:** distributed objects, federated databases, integration, multidatabases, views

**7 Modeling Web application architectures with UML**

Jim Conallen

October 1999 **Communications of the ACM**, Volume 42 Issue 10

Full text available:  pdf(146.85 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

 html(39.12 KB)

**8 Putting integrated information in context: superimposing conceptual models with SPARCE**

Sudarshan Murthy, David Maier, Lois Delcambre, Shawn Bowers

January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31**

Full text available:  pdf(510.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A person working with diverse information sources—with possibly different formats and information models—may recognize and wish to express conceptual structures that are not explicitly present in those sources. Rather than replicate the portions of interest and recast them into a single, combined data source, we leave *base information* where it is and *superimpose* a conceptual model that is appropriate to the task at hand. This superimposed model can be distinct from the ...

**Keywords:** SPARCE, conceptual modelling, context, excerpts, software architecture, superimposed information

**9** Version models for software configuration management 

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  pdf(483.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

**Keywords:** changes, configuration rules, configurations, revisions, variants, versions

**10** xlinkit: a consistency checking and smart link generation service 

Christian Nentwich, Licia Capra, Wolfgang Emmerich, Anthony Finkelstein

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Full text available:  pdf(463.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

xlinkit is a lightweight application service that provides rule-based link generation and checks the consistency of distributed Web content. It leverages standard Internet technologies, notably XML, XPath, and XLink. xlinkit can be used as part of a consistency management scheme or in applications that require smart link generation, including portal construction and management of large document repositories. In this article we show how consistency constraints can be expressed and checked. We des ...

**Keywords:** Consistency management, XML, automatic link generation, constraint checking

**11** Principled design of the modern Web architecture 

Roy T. Fielding, Richard N. Taylor

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available:  pdf(217.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we introduce the Representational State Tra ...

**Keywords:** WWW, software architectural style, software architecture

**12 An axiomatic model of dynamic schema evolution in objectbase systems**

Randel J. Peters, M. Tamer Özsu

March 1997 **ACM Transactions on Database Systems (TODS)**, Volume 22 Issue 1Full text available:  pdf(647.83 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** dynamic schema evolution, object database management systems**13 Special issue on persistent object systems: Orthogonally persistent object systems**

Malcolm Atkinson, Ronald Morrison

July 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 3Full text available:  pdf(5.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

**Keywords:** database programming languages, orthogonal persistence, persistent application systems, persistent programming languages**14 Tools and approaches for developing data-intensive Web applications: a survey**

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3Full text available:  pdf(524.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

**Keywords:** HTML, Intranet, WWW, application, development**15 Understanding object-oriented: a unifying paradigm**

Tim Korson, John D. McGregor

September 1990 **Communications of the ACM**, Volume 33 Issue 9Full text available:  pdf(2.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The need to develop and maintain large complex software systems in a competitive and dynamic environment has driven interest in new approaches to software design and development. The problems with the classical waterfall model have been cataloged in almost every software engineering text [19,23]. In response, alternative models such as the spiral [2], and fountain [9] have been proposed. Problems with traditional development using the classical life cycle include no iteration, no ...

**16 On the notion of inheritance**

Antero Taivalsaari

September 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 3Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available: [pdf\(609.81 KB\)](#)[terms](#)

One of the most intriguing—and at the same time most problematic—notions in object-oriented programming is inheritance. Inheritance is commonly regarded as the feature that distinguishes object-oriented programming from other modern programming paradigms, but researchers rarely agree on its meaning and usage. Yet inheritance is often hailed as a solution to many problems hampering software development, and many of the alleged benefits of object-oriented programming ...

**Keywords:** delegation, incremental modification, inheritance, language constructs, object-oriented programming, programming languages

**17** [Frameworks for component-based client/server computing](#) 

Scott M. Lewandowski

March 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 1Full text available: [pdf\(243.81 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**18** [Improving the aircraft design process using Web-based modeling and simulation](#) 

John A. Reed, Gregory J. Follen, Abdollah A. Afjeh

January 2000 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 10 Issue 1Full text available: [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Designing and developing new aircraft systems is time-consuming and expensive. Computational simulation is a promising means for reducing design cycle times, but requires a flexible software environment capable of integrating advanced multidisciplinary and multifidelity analysis methods, dynamically managing data across heterogeneous computing platforms, and distributing computationally complex tasks. Web-based simulation, with its emphasis on collaborative composition of simulation models, ...

**Keywords:** Java, Web-based simulation, aircraft design, object-oriented

**19** [Streams, structures, spaces, scenarios, societies \(5s\): A formal model for digital libraries](#) 

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2Full text available: [pdf\(316.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

**Keywords:** applications., definitions, foundations, taxonomy

**20** [CS1 using Java language features gently](#) 

Elliot Koffman, Ursula Wolz

June 1999 **ACM SIGCSE Bulletin , Proceedings of the 4th annual SIGCSE/SIGCUE ITiCSE conference on Innovation and technology in computer science education**, Volume 31 Issue 3Full text available: [pdf\(440.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Teaching a new programming language in CS1 requires the instructor to make several important decisions regarding sequencing of topics. In teaching Java, the basic decisions center around how to perform input and output, when to teach the AWT (Abstract Window Toolkit) and threads, whether to begin with applets or applications, and how much detail about object-oriented programming and Java language features is required in the beginning. This paper describes a "language features gently" approach to ...

**Keywords:** CS1, Java, graphics, interactivity, programming, user interface

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)